

**JOHN W. DEVLIN, PHARM.D., BCCCP, FCCM, FCCP**  
**Department of Pharmacy and Health Systems Sciences**  
**Bouve College of Health Science, Northeastern University**  
**360 Huntington Ave R216F Boston, MA 02115**  
**Email: j.devlin@neu.edu**  
**Phone: 617-285-8610**  
**Scientific Staff, Division of Pulmonary, Critical Care and**  
**Sleep Medicine, Tufts Medical Center, Boston, MA**

## **EDUCATION/EMPLOYMENT HISTORY**

### **Education**

1996 -1997 Critical Care Pharmacy Fellowship, Henry Ford Hospital, Detroit, MI  
1994 - 1996 Doctor of Pharmacy, University of Toronto, Toronto, ON  
1988 - 1989 Pharmacy Practice Residency, London Health Sciences Centre, London, ON  
1984 - 1988 Bachelor of Science in Pharmacy, University of Toronto, Toronto, ON

### **Employment History**

2014-2015 Acting Chair, Department of Pharmacy Practice, Northeastern University, Boston, MA  
2013-Present Professor (with tenure), School of Pharmacy, Northeastern University, Boston, MA  
2011-Present Special and Scientific Staff, Division of Pulmonary, Critical Care and Sleep  
Medicine, Department of Medicine, Tufts Medical Center, Boston, MA  
2009-Present Associate Professor (with tenure), School of Pharmacy, Northeastern University, Boston, MA  
2005-Present Adjunct Associate Professor, Tufts University School of Medicine, Boston, MA  
2004-Present Director, Critical Care Pharmacy Fellowship Program, School of Pharmacy, Northeastern  
University, Boston, MA  
2003-2009 Associate Professor (without tenure), School of Pharmacy, Northeastern University, Boston, MA  
2003-2016 Clinical Pharmacist Specialist, Critical Care (MICU), Tufts Medical Center, Boston, MA  
2002-2003 Adjunct Associate Professor, College of Pharmacy and Allied Health Professions, Wayne State  
University, Detroit, MI  
2000-2003 Director, Critical Care Fellowship Program, College of Pharmacy and Allied Health Professions, Wayne  
State University, Detroit, MI  
1996-2002 Adjunct Assistant Professor, College of Pharmacy, Wayne State University, Detroit, MI  
1997-2003 Clinical Pharmacist Specialist, Surgery/Critical Care, Detroit Receiving Hospital and University Health  
Center, Detroit, MI  
1994-1996 Clinical Pharmacist, Intensive Care Unit, Toronto Hospital, General Division, Toronto, ON  
1992-1994 Clinical Pharmacist, Critical Care/General Medicine, Greater Victoria Hospital Society Victoria, BC  
1989-1991 Clinical Pharmacist, Critical Care, St. Joseph's Hospital, Hamilton, ON

### **Certification and Licensure**

2016-Present Board Certification as a Critical Care Pharmacotherapy Specialist (BCCCP)  
2003-Present Pharmacist Licensure: State of Massachusetts (#25643)  
1997-2010 Board Certification as a Pharmacotherapy Specialist (BCPS)  
1997-Present Advanced Cardiac Life Support (ACLS)

## **SCHOLARSHIP/RESEARCH**

### **Awards and Honors**

2018 Distinguished Service Award, Society of Critical Care Medicine  
2013 Distinguished Scholar and Fellow, National Academies of Practice (NAP)  
2012 Faculty inductee, Rho Chi Honor Society, Beta Tau Chapter, Northeastern University

- 2011 Critical Care Practice and Research Network Research Achievement Award, American College of Clinical Pharmacy
- 2007 Visiting Professor Award, Society of Critical Care Medicine
- 2007 Pharmacy Fellowship Research Award, Society of Critical Care Medicine
- 2007 Pharmacy Specialty Research Award, Society of Critical Care Medicine
- 2005 Fellow (FCCP), American College of Clinical Pharmacy
- 2005 GI/Liver/Nutrition Practice and Research Network Travel Award, American College of Clinical Pharmacy
- 2004 Joseph F. Dasta Critical Pharmacy Research Grant, Society of Critical Care Medicine
- 2003 Fellow (FCCM), American College of Critical Care Medicine
- 2002 Bayer Research Award, Fifth Annual Conference of Infectious Disease Pharmacotherapy
- 2000 Nursing Section Research Award, Society of Critical Care Medicine
- 2000 Presidential Citation, Society of Critical Care Medicine
- 1998 Bayer Publication Award, Canadian Society of Hospital Pharmacists
- 1998 Educational Scholarship Research Award, Society of Critical Care Medicine
- 1996 Baxter Award, University of Western Ontario/McMaster University Critical Care Research Day

### Refereed Articles

- 156. **Devlin JW**, Skrobik Y, Rochweg B, Nunnally M, Needham DM, Gelinac C, Pandharipande P, Slooter A, Watson P, Weinhouse G, Kho ME, Centofani J, Price, C, Harmon L, Misak C, Flood P, Alhazzani W. Methodological innovation in creating clinical practice guidelines: insights from the 2018 SCCM pain, agitation/sedation, delirium, immobility and sleep (disruption) guideline effort. *Crit Care Med* 2018 (under review).
- 155. Balas MC, Weinhouse G, Denehy L, Chanques G, Rochweg B, Misak CJ, Skrobik Y, **Devlin JW**, Fraser GL. Interpreting and implementing the 2018 pain, agitation/sedation, delirium, immobility, and sleep (disruption) (PADIS) clinical practice guidelines. *Crit Care Med* 2018 (under review).
- 154. **Devlin JW**, Skrobik Y, Gelinac C, Pandharipande P, Slooter A, Watson P, Weinhouse G, Nunnally M, Rochweg B, Balas MC, van den Boogaard M, Bosma KJ, Brummel NE, Chanques G, Denehy L, Drouot X, Fraser GL, Harris JE, Joffe AM, Kho ME, Kress JP, Lanphere JA, McKinley S, Neufeld KJ, Pisani MA, Payen JF, Pun BT, Puntillo KA, Riker RR, Robinson BRH, Shehabi U, Szumita PM, Winkelmann, Centofani J, Price, C, Nikayin S, Misak CJ, Flood PD, Kiedrowski K, Alhazzani W. Clinical practice guidelines for the prevention and management of pain, agitation/sedation, delirium, immobility, and sleep disruption in adult patients in the intensive care unit. *Crit Care* 2018 (under review).
- 153. **Devlin JW**, Skrobik Y, Gelinac C, Pandharipande P, Slooter A, Watson P, Weinhouse G, Nunnally M, Rochweg B, Balas MC, van den Boogaard M, Bosma KJ, Brummel NE, Chanques G, Denehy L, Drouot X, Fraser GL, Harris JE, Joffe AM, Kho ME, Kress JP, Lanphere JA, McKinley S, Neufeld KJ, Pisani MA, Payen JF, Pun BT, Puntillo KA, Riker RR, Robinson BRH, Shehabi U, Szumita PM, Winkelmann, Centofani J, Price, C, Nikayin S, Misak CJ, Flood PD, Kiedrowski K, Alhazzani W. Executive Summary: Clinical practice guidelines for the prevention and management of pain, agitation/sedation, delirium, immobility, and sleep disruption in adult patients in the intensive care unit. *Crit Care Med* 2018 (under review).
- 152. Roberts RJ, Duprey MS, Kumar A, **Devlin JW**. Association between initial antibiotic sequence and mortality in septic shock. *Crit Care Med* 2018 (under review)
- 151. van den Boogaard M, Wassenaar A, van Haren FMP, Slooter AJC, Jorens PG, van der Jagt M, Simons KS, Egerod I, Burry LD, Beishuizen A, Matos J, Pickkers P, **Devlin JW**. Relationship between level of sedation and presence of delirium after CAM-ICU or ICDSC assessment. *Crit Care Med* 2018 (under review).
- 150. Wassenaar A, Schoonhoven L, **Devlin JW**, et al. External validation of two delirium prediction models for intensive care unit patients. *Crit Care Med* 2018 (under review)
- 149. Wassenaar A, Schoonhoven L, **Devlin JW**, et al. Delirium prediction in the intensive care unit: comparison of two delirium prediction models. *Crit Care* 2018 (under review)
- 148. Duprey M., Al-Qadheeb NS, O'Donnell N, Hoffman KB, Weinstock J, Madias C, Dimbel M, **Devlin JW**. Serious cardiovascular adverse events reported with the use of intravenous sedatives in the United States: an eight-year analysis. *Drug Safety* 2018 (under review)
- 147. Stollings JL, **Devlin JW**, Pun BT et al. Implementing the ABCDEF Bundle: Top eight questions asked during the intensive care unit liberation collaborative. *Crit Care Nurse* 2018 (in press).
- 146. Balas MC, Pun BT, Pasero C, Engel HJ, Perme C, Esbrook CL, Kelly T, Hargett KD, Posa PJ, **Devlin JW**, et al. Common challenges to effective ABCDEF bundle implementation: the intensive care unit liberation campaign experience. *Crit Care Nurse* 2018 (in press)
- 145. Barnes MA, Pun BT, **Devlin JW**, et al. An evidence-based, collaborative approach to ABCDEF bundle dissemination and implementation. *Worldviews on Evidence-Based Nursing* 2018 (in press).

144. Skrobik Y, Duprey MS, Hill NS, **Devlin JW**. Low-dose nocturnal dexmedetomidine prevents ICU delirium: a randomized, placebo-controlled trial. *Am J Respir Crit Care Med* 2018 (in press).
143. **Devlin JW**, MacKenzie C. Expanding the reach of critical care pharmacists globally. *Crit Care Med* 2018 (in press).
142. Shafeeq H, Hammond DA, Swanson JM, Cheng L, **Devlin JW**. Publication of PGY-2 resident research projects practices and perceptions of recent graduates. (2017) *Am J Pharm Education* (in press)
141. Swanson JM, Shafeeq H, Hammond DA, Cheng L, **Devlin JW**. Publication of PGY2 resident research projects: practices and perceptions of residency directors and research mentors. (2017) *Am J Health Syst Pharm* (in press)
140. Duprey, MS, Sara A. Zekery-Saad, **Devlin, JW**. The evidence clash between statins and delirium: should they stay, should they go, or should they be started? *Crit Care Med* 2017; 45(9):1574-1576.
139. Skrobik Y, **Devlin J**. Trials of statins in delirium-stymied by complex methods? *Lancet Respir Med*. 2017 Sep;5(9):673-674.
138. Hammond DA, Oylar DR, **Devlin JW** et al. Perceived motivating factors and barriers for the completion of postgraduate training among American pharmacy students prior to beginning advanced pharmacy practice experiences. *Am J Pharm Educ* 2017; 81(5):90.
137. Burns KEA, **Devlin JW**, Hill NS. Patient and family engagement in designing and implementing a weaning trial: a novel research paradigm in critical care. *Chest* 2017; 152(4):707-711.
136. Pandharipande PP, Ely EW, Arora RC, Balas MC, Boustani MA, La Calle GH, Cunningham C, **Devlin JW** et al. The intensive care delirium research agenda: a multinational, interprofessional perspective. *Intensive Care Med*. 2017; 43(9):1329-1339.
135. Garpestad E, **Devlin JW**. Polypharmacy and delirium in critically ill older adults: recognition and prevention. *Clin Geriatr Med*. 2017;33(2):189-203.
134. Roberts, R., Al-Hammad, A., Crossley L., Anketell E., Wood, L., Schumaker, G., Garpestad, E., **Devlin, J.W**. A survey of critical care nurses' practices and perceptions surrounding early intravenous antibiotic initiation during septic shock. *Intensive Crit Care Nurs* 2017; 41:90-97.
133. Curtis N, Corapi J, Roberts R, **Devlin JW**. Rebranding of generic parenteral vasopressin: effect on clinician practices and perceptions. *Am J Health Syst Pharm* 2017 Feb 1;74(3):105-106.
132. Oliveri-Mui BL, **Devlin JW**, Ochoa A, Schenck D, Briesacher B. Perceptions vs. evidence: therapeutic substitutes for antipsychotics in patients with dementia in long term care. *Aging Ment Health*. 2017 Jan 12:[Epub ahead of print]
131. Dzierba AL, Roberts R, Muir J, Alhammad A, Schumaker G, Clark J, Ruthazer R, **Devlin JW**. (2016) Severe thrombocytopenia in adults with severe acute respiratory distress syndrome: Impact of extracorporeal membrane oxygenation use. *ASAIO J*. 2016 Nov/Dec;62(6):710-714.
130. **Devlin JW**, Smithberger P, Kane JM, Fraser GL, Skrobik Y. (2016) Intended and unintended consequences of constraining clinician prescribing: the case of antipsychotics. *Crit Care Med* 2016 Oct;44(10):1805-7.
129. Duprey MS, Al-Qadheeb N, Roberts R, Skrobik G, **Devlin JW**. (2016) The use of low-dose IV haloperidol is not associated with QTc prolongation: post-hoc analysis of a randomized, placebo-controlled trial. *Intensive Care Med* 2016 Nov;42(11):1818-1819.
128. **Devlin JW**. Skrobik Y. (2016) The evidence to use antipsychotics to prevent or treat delirium remains sparse. *Crit Care Med* . 2016 Nov;44(11):e1151.
127. Mehta S, Meade M, Burry L, Mallick R, Katsios C, Fergusson D, Dodek P, Burns K, Herridge M, **Devlin JW**, Tanios M, Fowler R, Jacka M, Skrobik Y, Olafson K, Cook D; SLEAP Investigators and the Canadian Critical Care Trials Group. (2016) Variation in diurnal sedation in mechanically ventilated patients who are managed with a sedation protocol alone or a sedation protocol and daily interruption. *Crit Care* ;20(1):233.
126. Nigoghossian CD, Dzierba AL, Etheridge J, Roberts R, Muir J, Brodie D, Schumaker G, Bacchetta M, Ruthazer R, **Devlin JW**. (2016) Effect of extracorporeal membrane oxygenation use on sedative requirements in patients with severe acute respiratory distress syndrome. *Pharmacotherapy*;36(6):607-16.
125. **Devlin JW**, Peelen LM, Slooter A (2016) Benzodiazepine-associated delirium: further considerations. *Intensive Care Med*. 2016 Sep;42(9):1517-8.
124. **Devlin JW**, Weinhouse GL. Earplugs, sleep improvement and delirium: a noisy relationship. (2016) *Critical Care Med* May;44(5):1022-3.
123. Devlin JW. (2016) Quetiapine for ICU delirium: the evidence remains weak *Pharmacotherapy*;36(2):e12-3.
122. Balas MC, **Devlin JW**, Verceles, AC Morris PE, Ely EW. (2016) Adapting the ABCDEF bundle to meet the needs of chronically critically ill patients who require prolonged mechanical ventilation: historical perspectives and practical implications. *Sem Respir Crit Care Med* Feb;37(1):119-35.
121. Rose L, Burry L, Mallick R, Luk E, Cook D, Fergusson D, Dodek P, Burns K, Granton J, Ferguson N, **Devlin JW**, Steinburg M, Keenan S, Reynolds S, Tanios M, Fowler R, Jacka M, Olafson K, Skrobik Y, Mehta S. (2015) Prevalence, risk factors and outcomes associated with physical restraint use in mechanically ventilated adults *J Crit Care* (ahead of press September 25)

120. Al-Qadheeb, N.S., Skrobik, Y., Schumaker, G., Pacheco, M., Roberts, R., Ruthazer, R., & **Devlin, J.W.** (2016) Preventing ICU subsyndromal delirium conversion to delirium with low-dose IV haloperidol: a double-blind, placebo-controlled, pilot study. *Crit Care Med Crit Care Med*, 44(3):583-91.
119. Wolters AE, Veldhuijzen DS, Zaal IJ, Peelen LM, van Dijk D, **Devlin JW**, Slooter AJ (2015) Systemic corticosteroids and transition to delirium in critically ill patients. *Crit Care Med*.43(12):e585-8.
118. Zaal, I.J., **Devlin, J.W.**, Hazelbag, M., Klein-Klouwenberg, P., van der Kooi, A.W., Ong, D.S.Y., Cremer, O.L., Groenwold, R.H., & Slooter, A.J.C. (2015) Benzodiazepine-associated delirium in critically ill adults. *Intensive Care Medicine* Dec 41(12): 2130-7.
117. L Burry, D Cook, M Herridge, M Steinberg, **JW Devlin**, K Olafson, D Fergusson, R Mallick, M Meade, J Granton, N Ferguson, P Dodek, M Tanios, R Fowler, K Burns, M Jacka, Y Skrobik, S Reynolds, S Keenan, and, S Mehta, for the SLEAP Investigators and the Canadian Critical Care Trials Group. (2015) Recall of ICU stay in mechanically ventilated patients managed with a sedation protocol or a sedation protocol with daily interruption. *Critical Care Medicine Crit Care Med*; 43(10):2180-90.
116. Hazelbag CW, Zaal IJ, **Devlin, JW**, Gatto NW, Hoes AW, Slooter AJC, Groenwold, RH. (2015) An application of inverse probability weighting estimation of marginal structural models of a continuous exposure. *Epidemiology*; 26(5): e52-3.
115. Wolters, A.E., Zaal, I.J., Veldhuijzen, D.S., Cremer, O.L., **Devlin, J.W.**, van Dijk, D., Slooter A.J.C. (2015) Anticholinergic drugs and the daily transition to delirium in critically ill patients: a prospective cohort study. *Crit Care Med*;43(9):1846-52.
114. Al-Hammad A, Roberts R, Schumaker G, **Devlin, J.W.** (2015) Antibiotic initiation in severe sepsis: does sequence impact outcome? *Crit Care Med* 43(3):e102.
113. Rose L, Burry, L., Steinberg M., Rose, L. Kim, S., **Devlin, J.W.**, Ashley, B.J., Smith, O. Poretta K. Lee Y, Harvey J., Brown, M., Cheema, P., Wong, Z., & Mehta, S. for the SLEAP Investigators and Canadian Critical Care Trials Group. [2015] Clinicians' perspectives on protocols designed to minimize sedation. *J Crit Care* 30 (2); 348-52
112. Zaal I, Slooter A, **Devlin JW**. (2015) Response to: Response to: Corticosteroids and transition to delirium in acute lung injury: multinomial logistic regression and analysis accounting for multiple states. *Crit Care Med* 41(1): e24-25.
111. Mehta S, Cook D, **Devlin JW**, Skrobik Y, Meade M, Fergusson D, Herridge M, Steinberg M, Granton J, Ferguson N, Tanios M, Dodek P, Fowler R, Burns K, Jacka M, Olafson K, Mallick R, Reynolds S, Keenan S, Burry L for the SLEAP Investigators and the Canadian Critical Care Trials Group. (2015) Prevalence, risk factors and outcomes of delirium in mechanically ventilated adults. *Crit Care Med* 43(3); 557-66 (ahead of press Dec 9, 2014).
110. Zaal I.,J., **Devlin, J.W.**, Peelen, L.M., & Slooter, A.J.C. (2015) A systematic review of risk factors for delirium in the intensive care unit. *Crit Care Med* 41(1): 40-47. (ahead of press July 6, 2014)
109. Bioc, J., Magee, C., Cucchi, J., Fraser, G., Dasta, J., Edwards R., & **Devlin: J.W.** (2014) Cost-effectiveness of benzodiazepine vs. non-benzodiazepine sedation during mechanical ventilation. *J Crit Care* 29(5): 753-7.
108. **Devlin, J.W.**, Zaal I, & Slooter AJC. (2014) Clarifying the confusion surrounding drug-associated delirium in the ICU.(2014) *Crit Care Med* 42(6); 1565-6.
107. Sauër, A.M.C, Slooter, A.J.C, Veldhuijzen, D.S., van Eijk, M.M.J., **Devlin, J.W.** & van Dijk, D. (2014) Intraoperative dexamethasone and delirium after cardiac surgery: a randomized clinical trial. *Anesthesia Analgesia* (ahead of press May 7).
106. **Devlin, J.W.**, Pohlman A. (2014) Everybody, everyday: An "ABCDE" culture is feasible in your ICU. *Crit Care Med*;42(5):1280-1.
105. **Devlin, J.W.**, Al-Qadheeb, N.S., Chi, A., Roberts, R., Qawi, I., Garpestad, E., & Hill, N.S. (2014) Efficacy and safety of dexmedetomidine during non-invasive ventilation for patients with acute respiratory failure: a randomized, double-blind, placebo-controlled, pilot study. *CHEST*; 145 (6):1204-12.
104. Al-Qadheeb, N., Balk, E., Fraser, G. Skrobik, Y., Riker R., Kress, J.P., Whitehead, S., & **Devlin, J.W.** (2014) Randomized ICU trials do not demonstrate an association between interventions that reduce delirium duration and short-term mortality: A systematic review and meta-analysis. *Crit Care Med*; 42(6):1442-54.
103. **Devlin, J.W.**, Fraser, G.F., Joffe, A., Riker R.R. & Skrobik Y (2013). The accurate recognition of delirium in the ICU: more new clothes for the emperor. *Intensive Care Med*; 39(12):2196-9.
102. Fraser, G.L., **Devlin, J.W.**, Worby, C.P., Alhazzani, W., Barr, J., Dasta, J.F., Kress, J.P., Davidson, D.E. & Spencer, F.A. (2013) Benzodiazepine versus non-benzodiazepine-based sedation for mechanically ventilated, critically ill adults: a systematic review and meta-analysis of randomized trials. *Crit Care Med*; 41:S30-S38.
101. Al-Qadheeb, N.S., Hoffmeister, J., Roberts, R., Shanahan, K., Garpestad, E., & **Devlin, J.W.** (2013) Perceptions of nurses and physicians of their communication at night about intensive care patients' pain, agitation and delirium. *American Journal of Critical Care*; 22: e49-e61.
100. Al-Qadheeb, N.S., O'Connor, H., White, A., & **Devlin, J.W.** (2013) Agitation in patients requiring prolonged mechanical ventilation at a long term acute care hospital: Risk factors, outcomes and therapy. *Journal of Intensive Care Med* (ahead of press April 29 2013)

99. **Devlin, J.W.**, Fraser, G.L., Ely, E.W., Kress, J.P., Skrobik, Y., & Dasta, J.F. (2013) Pharmacological management of sedation and delirium in mechanically ventilated ICU patients. *Sem Resp Crit Care Med*;34(2):201-15
98. Pun, B., & **Devlin, J.W.** (2013) Delirium assessment tools in critical care. *Sem Resp Crit Care Med*; 34 (2):179-88.
97. Fongemie, J., Al-Qadheeb N.S., Estes, N.A., Roberts, R., Tongesketi, T., Ruthazer, R., & **Devlin JW.** (2013) Agreement between ICU clinicians and electrophysiology cardiologists for the initiation of a QTc-interval prolonging medication in critically ill patients with potential risk factors for Torsade de Pointes: a comparative, case-based evaluation. *Pharmacotherapy*; 33(6);589-97.
96. Torbic, H., Papadopoulos, S., Manjourides, J., & **Devlin, J.W.** (2013) Impact of a protocol advocating dexmedetomidine over propofol sedation after robotic-assisted, direct coronary artery bypass surgery on duration of mechanical ventilation and patient safety. *Annals of Pharmacotherapy*; 47(4);441-6.
95. Al-Qadeeb N.S., O'Connor, H., White, A., Neidhardt, N., Albizati, M., Joseph, B., Roberts, R., Ruthazer, R., & **Devlin, J.W.** (2013) Antipsychotic use and outcomes in patients requiring prolonged mechanical ventilation at a long term acute care hospital. *Annals of Pharmacotherapy*; 47(2):181-8.
94. Barr, J., Fraser, G.L., Puntillo, K., Ely, E.W., Gelineas, C., Dasta, J.F., Davidson, J.E., **Devlin, J.W.**, Kress, J.P., Joffe, A., Coursin, D.B., Herr, D., Tung, A., Robinson, B.R.H., Fontaine, D., Ramsay, M., Riker, R., Sessler, C.N., Pun, B., Skrobik, Y., & Jaeschke, R. (2013) Clinical practice guidelines for the management of pain, agitation and delirium in adult ICU patients. *Critical Care Medicine*; 41: 263-306.
93. Barr, J., Fraser, G.L., Puntillo, K., Ely, E.W., Gelineas, C., Dasta, J.F., Davidson, J.E., **Devlin, J.W.**, Kress, J.P., Joffe, A., Coursin, D.B., Herr, D., Tung, A., Robinson, B.R.H., Fontaine, D., Ramsay, M., Riker, R., Sessler, C.N., Pun, B., Skrobik, Y., & Jaeschke, R. (2013) Clinical practice guidelines for the management of pain, agitation and delirium in adult ICU patients: Executive summary. *American Journal of Health-System Pharmacy*: 70;53-58.
92. **Devlin, J.W.**, Brummel, N., & Al-Qadheeb, N.S. (2012) Optimizing the recognition of delirium in the critically ill. *Best Practices and Research in Clinical Anaesthesiology*; 26(3):385-93.
91. **Devlin, J.W.**, Alqadheeb, N.S., & Skrobik, Y. (2012) Pharmacologic prevention and treatment of delirium in critically ill and non-critically ill hospitalized patients: a review of data from prospective, randomized studies. *Best Practices and Research in Clinical Anaesthesiology*; 26(3); 289-309.
90. **Devlin, J.W.**, Al-Qadheeb, N.S., & Riker R. R. (2012) Sedation, nighttime, icebergs, and the titanic. *Critical Care Medicine* Oct; 40(10):2905-6.
89. Bhat S, Roberts R, & **Devlin JW.** (2012) Posted versus actual drug shortages. *American Journal Health-System Pharmacy*; 15; 69(16):1363-4.
88. Mehta, S., Burry L., Cook, D., Fergusson, D., Steinburg, M., Granton, J., Herridge, M., Ferguson, N., **Devlin, J.W.**, Tanios, M., Dodek, P., Fowler, R., Burns, K., Jacka, M., Olafson, K., Skrobik, Y., Hebert, P., Sabri, E., & Mead, M.A. for the Canadian Critical Care Trials Group. A randomized trial of daily sedative interruption in mechanically ventilated critically ill patients cared for with a sedation protocol. *JAMA* Nov 21;308(19):1985-92.
87. Al-Qadheeb, N.S., Roberts, R., Griffin, R., Garpestad, E., Ruthazer, R., & **Devlin, J.W.** (2012) Impact of enteral methadone on the ability to wean continuously-infused opioids in critically ill, mechanically ventilated adults: A case-control study. *Annals of Pharmacotherapy*; Sept 46(9): 1160-6.
86. Gesin, G., & **Devlin, J.W.** (2012) Response: Delirium diagnosis: what you do with the information matters most. *American Journal Critical Care* May; 21(3):154-5.
85. **Devlin, J.W.**, & Skrobik, Y. (2012) The Kynurenine pathway: a metabolinomic pathway for ICU delirium? *Critical Care Medicine* 40(3):1001-2
84. **Devlin, J.W.**, & Al-Qadheeb, N.S. (2012). An ACE in the hole for evaluating cognition in the ICU? *Critical Care Medicine* Jan;40(1):324-6
83. Kher. S., Roberts, R.J., Garpestad, E., Howard H., Kunkel, C., Didomenico, D., Ferguson, A., & **Devlin, J.W.** (2012) Development, implementation and evaluation of an institutional daily awakening and spontaneous breathing trial protocol: a process improvement project. *Journal Intensive Care Medicine* (ahead of press May 14)
82. Gesin, G., Lin, A., Russell, B., Norton, H., Evans, S., & **Devlin, J.W.** (2012). Impact of a delirium screening tool, with or without a multifaceted education program supporting its use, on nurse knowledge and ability to correctly evaluate delirium in a surgical-trauma intensive care unit. *American Journal Critical Care* Jan;21(1):e1-e11.80
81. Roberts, R., Chi, A., Grover, A., Newman, M., Bhat, S., Benotti, S., Garpestad, E., Nasraway, S., & **Devlin, J. W.** (2012) Impact of a national propofol shortage on duration of mechanical ventilation at an academic medical center. *Critical Care Medicine* Feb;40(2):406-11
80. **Devlin, J.W.**, Skrobik, Y., Hinderleider, E., Roberts, R., Fong, J.J., Riker, R., Ruthazer, R., Hill, N. S., & Garpestad, E. (2011). Impact of quetiapine on the resolution of individual delirium symptoms in critically ill patients with delirium: a double-blind, randomized, placebo-controlled pilot study. *Critical Care* Sep 17;15(5):R215
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*Annals of Pharmacotherapy* 45: 1217-29

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77. **Devlin JW**, & Skrobik Y. (2011) Antipsychotics for the prevention and treatment of delirium in the ICU: What is their role? *Harvard Review of Psychiatry* 19:1-9

76. **Devlin, J.W**, Roberts, R., Fong, J.J., Skrobik, Y., Riker R.R., Hill, N.S., & Garpestad, E. (2010) Efficacy and safety of quetiapine for delirium in the ICU: A randomized, double-blind, placebo- controlled pilot study. *Critical Care Medicine*. Feb;38(2):419-27

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### Non-refereed Articles

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5. Devlin, J.W. (2009). ICU delirium recognition, prevention and treatment electronic protocol. VSICU (Phillips Electronic ICU Systems) (October)
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### Book Chapters

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## Presentations

### Refereed Original Research Conference Presentations

#### International

17. van der Jagt M, Hunfeld NGM, Trogrlic Z, **Devlin JW**, et al. Efficacy of haloperidol to decrease the burden of delirium in adult critically ill patients (EURIDICE): A prospective randomized multi-center double-blind, placebo-controlled clinical trial. Presented at the 30<sup>th</sup> Annual Meeting of the European Society of Intensive Care Medicine, Vienna, Austria.
16. N.G.M. Hunfeld, Z. Trogrlic, S.E. Ladage, R.J. Osse, B.C.P. Koch, W. Rietdijk, **J.W. Devlin**, M. van der Jagt [October 2016] *Relationship between trough haloperidol concentrations and clinical response in critically ill adults with delirium who are managed with a scheduled IV haloperidol protocol*. Presented at the 29<sup>th</sup> Annual Meeting of the European Society of Intensive Care Medicine, Milan, Italy.
15. L Rose, L Burry, R Mallick, E Luk, Cook D, Fergusson D, Meade M, Herridge M, Dodek P, Burns K, Granton J, Ferguson N, **Devlin JW**, Steinberg M, Tanios M, Fowler R, Jacka M, Olafson K, Skrobik Y, S Mehta [October 2014] *Factors associated with restraint use in the SLEAP trial: a multicenter randomized trial comparing protocolized sedation with daily sedation interruption versus protocolized sedation alone in mechanically ventilated adults*. Accepted for presentation at the 27<sup>th</sup> Annual Meeting of the European Society of Intensive Care Medicine, Barcelona, Spain.
14. Hazelbag, M., Zaal, I.J., Slooter, A.J.C. **Devlin, JW**, Groenwold. RHH. [July 2014] *Inverse probability weighting*

- estimation of marginal structural models when evaluating causality during continuous benzodiazepine exposure in the critically ill.* Accepted for presentation at the Netherlands Epidemiological Society Congress. Amsterdam, NL.
13. L Burry, D Cook, M Meade, R Mallick, D Fergusson, M Herridge, M Steinberg, J Granton, N Ferguson, **JW Devlin**, M Tanios, P Dodek, R Fowler, K Burns, M Jacka, K Olafson, S Reynolds, S Keenan, Y Skrobik, and, S Mehta, for the SLEAP Investigators and the Canadian Critical Care Trials Group [November 2013] *Recall of ICU stay in mechanically ventilated patients managed with a sedation protocol or a sedation protocol with daily interruption.* Presented at the 2013 Critical Care Forum, Toronto, Canada.
12. Mehta, S., Cook, D., Meade, M., Mallick, R., Fergusson, N. Herridge, M., Steinberg, M., Granton, J., Ferguson, N., **Devlin, J.**, Tanios, M., Dodek, P., Fowler, R., Burns, K., Jacka, M., Olafson, K., Keenan, S., Reynolds, S., Skrobik, Y., Burry, L., the SLEAP Investigators and the Canadian Critical Care Trials Group. [2013, October] *Recall of ICU stay in mechanically ventilated patients managed with a sedation protocol or a sedation protocol with daily interruption: results of the SLEAP multicenter randomized trial.* Presented at the 26<sup>th</sup> Annual Meeting of the European Society of Intensive Care Medicine. Paris, France
11. Mehta, S., **Devlin, J.W.**, Skrobik, Y., Meade, M., Cook, D., Fergusson, D., Steinberg, M., Granton, J. Ferguson, N., Tanios, M., Dodek, P., Fowler, R., Burns, K., Jacka, M., Olafson, K., Keenan, S., Reynolds, S., Kutsogiannis, J., Mallick, R., & Burry, L. for the SLEAP Investigators and the Canadian Critical Care Trials Group [2012, October] *Delirium, sub-syndromal delirium, antipsychotic use and associated clinical outcomes in critically ill mechanically ventilated patients enrolled in the SLEAP multicenter, randomized trial.* Accepted for presentation at the 25<sup>th</sup> Annual Meeting of the European Society of Intensive Care Medicine, Lisbon, Portugal October.
10. Burry, L., Steinberg M., Rose, L. Kim, S., **Devlin, J.W.**, Ashley, B.J., Smith, O. Poretta K. Lee Y, Harvey J., Brown, M., Cheema, P., Wong, Z., & Mehta, S. for the SLEAP Investigators and Canadian Critical Care Trials Group. [2011, October] *Clinicians' perspectives on the use of a sedation protocol or daily sedative interruption in mechanically ventilated patients enrolled in a multicenter sedation trial.* Presented at the 24<sup>th</sup> Annual Meeting of the European Society of the Intensive Care Medicine, Berlin, Germany.
9. Kanji, S., Betancourt, M., Kruse, J.A., & **Devlin, J.W.** [2002, September]. *Validating the use of ICD-9 based search strategies to identify patients with severe sepsis who may be candidates for drotrecogin alfa (activated) therapy.* Platform presented at the European Society of Intensive Care Medicine's Annual Congress, Barcelona, Spain.
8. Betancourt, M., McKinnon, P.S., Kanji, S., Bach, D., Massanari, R.M. & **Devlin, J.W.** [2002, September]. *Impact of the number of failed organs on the cost-effectiveness of drotrecogin alfa (activated).* Poster presented at the European Society of Intensive Care Medicine's Annual Congress, Barcelona, Spain.
7. **Devlin, J.W.**, Boleski, G., Mlynarek, M., Nerenz, D., Peterson, E., Horst, H.M. & Zarowitz, B.J. [1998, February]. *The Motor Activity Assessment Scale: A valid and reliable sedation scale for use in adult, mechanically ventilated, surgical ICU patients.* Poster presented at the Canadian Society of Hospital Pharmacist's 1998 Professional Practice Conference, Toronto, ON.
6. **Devlin, J.W.** [1996, June]. *Impact of sedation guidelines on length of mechanical ventilation and drug cost.* Platform presented at the 1996 McMaster University Critical Care Medicine Research Day, Hamilton, ON.
5. **Devlin, J.W.**, Trepanier, E., Agro, K.A., Makarechian, N., Einarson, T. & Koren, G. [2005, August]. *The relationship between moderate alcohol consumption during pregnancy and spontaneous abortion, stillbirth and premature birth: A meta-analysis.* Presented at the 11th International Conference on Pharmacoepidemiology, Montreal, PQ.
4. **Devlin, J.W.**, McKelvie, G. & Bachand, R. [1992, February]. *Developing a new documentation form for clinical statistics: solving drug-related problems and the effect on drug cost.* Poster presented at the Canadian Society of Hospital Pharmacist's 1992 Annual Professional Practice Conference, Toronto, ON
3. **Devlin, J.W.**, Bayliff, C.D. & Bellamy, N. [1990, February]. *Concurrent allopurinol utilization review.* Poster presented at the Canadian Society of Hospital Pharmacist's 1990 Annual Professional Practice Conference, Toronto, ON.
2. **Devlin, J.W.**, Bayliff, C.D. & Paterson, N.A.M. [1989, January]. *Drug-induced psychosis secondary to benzodiazepine withdrawal masquerading as steroid psychosis.* Poster presented at the Canadian Society of Hospital Pharmacist's 1989 Annual Professional Practice Conference on January 27, 1989, Toronto, ON. )
1. **Devlin, J.W.**, Irvine-Meek, J. & Mann, J. [1988, August]. *Unit dose packaging: a survey of Pharmaceutical manufacturers.* Poster presented at the Canadian Society of Hospital Pharmacist's 1988 Annual Meeting, Toronto, ON.

### **National**

101. Briesacher BA, Mui BL, **Devlin JW**, Koethe B. Validity of nursing home self-reported antipsychotic prescribing. Submitted for presentation at 2019 Academy Health Annual Research Meeting. Seattle, WA
100. Tanios MA, Nguyen HM, Park H, Mehta S, Epstein SK, Flores G, Youseff F, Beltran A, Sidhom RM, Sehgal A, Leo JD, **Devlin JW**. *Randomized comparison of analgesia-first sedation, protocol-directed sedation or protocol-directed*

- sedation with daily interruption in mechanically ventilated adults: a pilot study.* Presented as a platform presentation at the American Thoracic Society 2018 Annual Meeting. San Diego, CA.
99. Roberts RJ, Duprey MS, Kumar A, **Devlin JW**. *Association between initial antibiotic sequence and mortality in septic shock.* Presented at the Society of Critical Care Medicine's 2018 Critical Care Congress, San Antonio TX
98. **Devlin JW**, Duprey MS, Moreno J, Roberts, R. *Epidemiology, opioid exposure & outcomes for ICU patients admitted with a known opioid use disorder.* Presented at the Society of Critical Care Medicine's 2018 Critical Care Congress, San Antonio TX
97. Duprey MS, van Boorgard M, van der Hoeven J, Pickkers P, **Devlin JW**. *Incident ICU delirium, its duration, & coma/delirium days: association with 28- and 90-day mortality.* Presented at the Society of Critical Care Medicine's 2018 Critical Care Congress, San Antonio TX
96. M. Duprey, S. Shah, A. Slooter, R. D. Stevens, **Devlin JW**. *The taxonomy of delirium and encephalopathy in research studies: a scoping review of 200 articles.* Presented at the American Delirium Society's 2017 Annual Meeting. Nashville, TN.
95. Skrobik Y, **Devlin JW**, Duprey M, Hill NS. *Nocturnal dexmedetomidine infusion effects on delirium and sleep quality in critically ill adults: a randomised, placebo-controlled trial.* Presented as a platform presentation at the American Thoracic Society 2017 Annual Meeting, Washington, DC.
94. Duprey MS, Al-Qadheeb N, Roberts R, Skrobik G, **Devlin JW**. *QTc interval prolongation with low-dose IV haloperidol: post-hoc analysis of a placebo-control trial.* Presented at the Society of Critical Care Medicine's 2017 Critical Care Congress, Honolulu, HI.
93. Curtis N, Corapi J, Roberts R, **Devlin JW**. *Impact of parenteral vasopressin generic rebranding on clinician practices and perceptions.* Accepted for presentation at the Society of Critical Care Medicine's 2017 Critical Care Congress, Honolulu, HI.
92. Roberts RJ, Gloria Vasquez-Grande, Ehsan Koohpayehzadeh Esfahani, Amarnath Pisipati, Kumar A, **Devlin JW**. *Impact of antibiotic initiation sequence on outcomes in patients with septic shock.* Accepted for presentation at the Society of Critical Care Medicine's 2017 Critical Care Congress, Honolulu, HI.
91. Oliveri-Mui BL, **Devlin JW**, Ochoa A, Schenck D, Briesacher B. *Perceptions vs. evidence: therapeutic substitutes for antipsychotics in patients with dementia in long term care.* Presented at 2016 Academy Health Meeting, Boston, MA
90. Schenck D, **Devlin JW**, Mui B, Ochoa A, Briesacher B. *Therapeutic substitutes for antipsychotics in adults with dementia in long term care facilities: preliminary results from an expert panel survey.* Accepted for presentation at the American Society of Health System Pharmacy 2016 Midyear Meeting, New Orleans, LA
89. Dzierba A, Smithburger P, Devlin J.W., Swan J, Kane Gill, S. *A national evaluation of ICU delirium identification, prevention and treatment practices.* Accepted for presentation at the Society of Critical Care Medicine's 2016 Critical Care Congress, Orlando, FL.
88. **Devlin JW**, Dzierba A, Roberts R, Muir J, Alhammad A, Clark J, Ruthazer R, Schumaker R. *Effect of ECMO use on the incidence of severe thrombocytopenia during severe ARDS* Accepted for presentation at the Society of Critical Care Medicine's 2016 Critical Care Congress, Orlando, FL.
87. Swanson JM, Shafeeq H, Hammond D, Li C, **Devlin J.W**. *Critical care pharmacy resident research publication: perceptions and practices of residency directors.* Accepted for presentation at the Society of Critical Care Medicine's 2016 Critical Care Congress, Orlando, FL.
86. Shafeeq H, Swanson JM, Hammond D, Li C, **Devlin J.W**. *Critical care pharmacy resident research project publication: practices and perceptions of graduates.* Accepted for presentation at the Society of Critical Care Medicine's 2016 Critical Care Congress, Orlando, FL.
85. Bailey BJ, Painter JT, **Devlin JW**, et al. for the POLS Group. *Perceived motivating factors and barriers for the completion of postgraduate training in American pharmacy students.* (Poster number: 2-003) American Society of Health-System Pharmacists Midyear Clinical Meeting. New Orleans, LA, December 7, 2015.
84. Wolters, A.E., Zaal, I.J., Veldhuijzen, D.S., Cremer, O.L., **Devlin, J.W.**, van Dijk, D., Slooter A.J.C. *Anticholinergic drugs and the daily transition to delirium in critically ill patients: a prospective cohort study.* Accepted for presentation at the 5<sup>th</sup> Annual Meeting of the American Delirium Society, Baltimore, MD.
83. C. Der Nigoghossian, A. Dzierba, J. Etheridge, R. Roberts, J. Muir, D. Brodie, G. Schumaker, **J. W. Devlin**. *Effect of extracorporeal membrane oxygenation use on sedative requirements during severe ARDS acute respiratory.* Presented at the Society of Critical Care Medicine's 2015 Critical Care Congress, Phoenix, AZ.
82. Alhammad, A., Roberts, R., Anketell E., Schumaker, G., Garpestad, E., **Devlin, J.W**. *Impact of Grm+ vs. Grm- antibiotic initiation sequencing on vasopressor requirements in septic shock.* Presented at the Society of Critical Care Medicine's 2015 Critical Care Congress, Phoenix, AZ.
81. Roberts, R., Alhammad, A., Crossley L., Anketell E., Wood, L., Schumaker, G., Garpestad, E., **Devlin, J.W**. *Practices and perceptions of ED and ICU RNs regarding initial IV antibiotic therapy for septic shock.* Presented at the Society of Critical Care Medicine's 2015 Critical Care Congress, Phoenix, AZ.

80. Al-Qadheeb, N.S., Skrobik, Y., Schumaker, G., Pacheco, M., Roberts, R., Ruthazer, R., **Devlin, J.W.** *Preventing ICU subsyndromal delirium conversion to delirium with low-dose IV haloperidol: a double-blind, placebo-controlled pilot study*. Presented at the Society of Critical Care Medicine's 2014 Critical Care Congress, San Francisco, CA.
79. Al-Qadheeb, N.S., Skrobik, Y., Schumaker, G., Pacheco, M., Roberts, R., Ruthazer, R., **Devlin, J.W.** *Preventing ICU subsyndromal delirium conversion to delirium with low-dose IV haloperidol: a double-blind, placebo-controlled pilot study*. Presented at the Society of Critical Care Medicine's 2014 Critical Care Congress, San Francisco, CA.
78. Bioc, J., Magee, C., Cucchi, J., Fraser, G., Dasta, J., Edwards R., **Devlin, J.W.** *Cost-effectiveness of benzodiazepine vs. non-benzodiazepine sedation during mechanical ventilation*. Presented at the Society of Critical Care Medicine's 2014 Critical Care Congress, San Francisco, CA.
77. Zaal, I., **Devlin, J.W.**, van der Kooij, A., Klein Klouwenberg, P., Hazelbag, M., Ong, D., Groenwold, R., Slooter, A.. *The association between benzodiazepine use and delirium in the ICU: a prospective cohort study*. Presented at the Society of Critical Care Medicine's 2014 Critical Care Congress, San Francisco, CA.
76. Zaal, I., **Devlin, J.W.**, Slooter, A.. *A systematic review of the risk factors for delirium in the intensive care unit*. Presented at the Society of Critical Care Medicine's 2014 Critical Care Congress, San Francisco, CA.
75. Palan-Lopez R, O'Connor HH, **Devlin JW**, White A, Guarino AJ. Assessing competency of providers in a long-term acute care hospital to evaluate delirium. Accepted for presentation at the 2013 Annual Scientific Meeting of the Gerontological Society of America. New Orleans, LA.
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74. **Devlin, J.W.**, Al-Qadheeb, N.S., Chi, A., Roberts, R., Qawi I., Garpestad E., Logvinenko, T., Hill, N.S., *Efficacy and safety of dexmedetomidine during non-invasive ventilation for patients with acute respiratory failure: A randomized, double-blind, placebo-controlled, pilot study*. Accepted for a platform presentation at the 2013 American Thoracic Society International Conference. Philadelphia, PA
73. Al-Qadheeb, N., Fraser, G., Balk, E., Skrobik, Y., Riker R., Kress, J.P., Whitehead, S., **Devlin, J.W.** *A meta-analysis and meta-regression of randomized, controlled ICU trials with interventions hypothesized to reduce delirium: the relationship between duration of delirium and hospital mortality*. Presented at the Society of Critical Care Medicine's 2013 Critical Care Congress, San Juan, PR.
72. Al-Qadheeb, N., O'Donnell N., Hoffman, K., Dimbil, M., **Devlin, J.W.** *Adverse events associated with IV sedative use and related mortality in the United States over an eight year period*. Presented at the Society of Critical Care Medicine's 2013 Critical Care Congress, San Juan, PR.
71. Rose, L., Maunder, R., Hunter, J., Day, A., Steinburg, M., Herridge, M., **Devlin, J.W.**, Dodek, J.W., Burry, L., Mehta S. for the Canadian Critical Care Trials Group. *Sleep, cognitive and psychological morbidity following sedation protocol and daily sedative interruption vs. sedation protocol alone in critically ill, mechanically ventilated adults (SLEAP-SCP)*. Presented at the Society of Critical Care Medicine's 2013 Critical Care Congress, San Juan, PR.
70. Fongemie J., Al-Qadheeb, N., Estes, N.A., Roberts, R., Temtanakitpaisan, Y., Ruthazer, R., **Devlin, J.W.** *Agreement between ICU clinicians and electrophysiology cardiologists for the initiation of a QTc-interval prolonging medication in ICU patients with potential risk factors for Torsades de Pointes*. Presented at the Society of Critical Care Medicine's 2013 Critical Care Congress, San Juan, PR.
69. Mehta, S., Burry, L., Cook, D., Steinberg, M., Fergusson D., Hebert P., Herridge, M., Granton, J., Ferguson, N., **Devlin, J.W.**, Tanios, M., Fowler, R., Dodek, P., Burns, K., Jacka, M., Olafson, K., Reynolds, S., Keenan, S., Skrobik, S., Kutsogiannis, J., Antoni, J., Meade, M., for the SLEAP Investigators and Canadian Critical Care Trials Group [2012, May] *SLEAP: A multicenter randomized trial of daily awakening in critically ill patients being managed with a sedation protocol*. Presented as a platform at the 2012 American Thoracic Society International Conference. San Francisco, CA.
68. Al-Qadheeb, N., O'Connor, H., Neidhardt, A., Albizati, M., Joseph, B., Roberts, R., Ruthazer, R., White, A., & **Devlin, J.W.** [2012, May] *Association between use of scheduled antipsychotic therapy during prolonged mechanical ventilation at a long term acute care hospital and related patient outcomes*. Presented at the 2012 American Thoracic Society International Conference. San Francisco, CA.
67. Hoffmeister, J., Al-Qadheeb, N.S., Roberts, N.S., Garpestad, E., Shanahan, K., & **Devlin, J.W.** [2012, May] *Perceptions of medical housestaff and nurses regarding nocturnal physician-nurse interactions surrounding pain, agitation and delirium in the intensive care unit*. Presented at the 2012 American Thoracic Society International Conference. San Francisco, CA.
66. O'Connor, H., Al-Qadheeb, N.S., Joseph, B., White, A., & **Devlin, J.W.** [2012, May] *Agitation during prolonged mechanical ventilation at a long term acute care hospital*. Presented at the 2012 American Thoracic Society International Conference. San Francisco, CA.
65. Hoffmeister, J., Al-Qadheeb, N.S., Roberts, R., Garpestad, R., & **Devlin, J.W.** [2012, February] *Perceptions and practices of on-call medical housestaff to ICU nurse concerns pertaining to pain, agitation and delirium*. Presented at the Society of Critical Care Medicine's 2012 Critical Care Congress, Houston, TX
64. Al-Qadheeb, N.S., Neidhardt, S., Albizati, M., O'Connor, H., Joseph, B., White, A., Roberts, R., Ruthazer, R., & **Devlin, J.W.** [2012, February] *Characterization of scheduled antipsychotic use in mechanically ventilated, long term care*

- acute care patients*. Presented at the Society of Critical Care Medicine's 2012 Critical Care Congress, Houston, TX.
63. Al-Qadheeb, N.S., Neidhardt, S., Albizati, M., O'Connor, H., Joseph, B., White, A., Roberts, R., Ruthazer, R., & **Devlin, J.W.** [2012, February] *Association between use of scheduled antipsychotic therapy in mechanically ventilated long term acute care patients and delirium symptoms, related management strategies and adverse effects: a case-control study*. Presented at the Society of Critical Care Medicine's 2012 Critical Care Congress, Houston, TX.
62. Bhat, S., Roberts, R., Alqadheeb, N., & **Devlin, J.W.** [2011, December] *Impact of multiple, concomitant parenteral drug shortages on intensive care unit prescribing patterns at an academic medical center: a two year analysis*. Presented at the 2011 ASHP Clinical Midyear Meeting, New Orleans, LA.
61. **Devlin, J.W.**, Skrobik, Y., Hinderleider, E., Roberts, R., Fong, J., Riker, R., Ruthazer, R., Hill, N., & Garpestad, E. [2011, October] *Impact of quetiapine on the resolution of individual delirium symptoms in critically ill patients with delirium: a post-hoc analysis of a double-blind, randomized, placebo-controlled pilot study*. Poster presentation at the American College of Clinical Pharmacy's 2011 Annual Meeting, Pittsburgh, PA.
60. Kher, S., Roberts, R.J., Garpestad, E., Epstein, S.K., Howard, H., Kunkel, C., Didomenico, D., Ferguson, A., & **Devlin, J.W.** [2011, May] *Development, implementation and evaluation of an institutional daily awakening and spontaneous breathing trial protocol: a process improvement project*. Poster presentation at the 2011 American Thoracic Society International Conference, Denver, CO.
59. **Devlin, J.W.**, Skrobik, Y., Hinderleider, E., Roberts, R., Fong, J., Riker, R., Ruthazer, R., Hill, N., Garpestad, E. [2011, January] *Impact of quetiapine on the resolution of individual delirium symptoms in critically ill patients with delirium: a double-blind, randomized, placebo-controlled pilot study*. Poster presentation at the Society of Critical Care Medicine's 2011 Critical Care Congress, San Diego, CA.
58. Roberts, R., Chi, A., Grover, A., Newman, M., Bhat, S., Benotti, S., Garpestad, E., Nasraway, S., & **Devlin, J. W.** [2011, January] *Impact of a national propofol shortage on duration of mechanical ventilation at an academic medical center*. Poster presentation at the Society of Critical Care Medicine's 2011 Critical Care Congress, San Diego, CA.
57. **Devlin, J.W.**, Bhat, S., Burke, C., Roberts, R., & Skrobik, Y. [2011, January] *Current critical care pharmacists' perceptions and practices surrounding the treatment of delirium in the intensive care unit*. Poster presentation at the Society of Critical Care Medicine's 2011 Critical Care Congress, San Diego, CA.
56. **Devlin, J.W.**, Bhat, S., Burke, C., Roberts, R., & Skrobik, Y. [2011, January] *Current critical care pharmacists' perceptions and practices surrounding the recognition of delirium in the intensive care unit*. Poster presentation at the Society of Critical Care Medicine's 2011 Critical Care Congress, San Diego, CA.
55. Lin, A., Russell, B., **Devlin, J.W.**, Norton, H., Evans, S., & Gesin, G. [2011, January] *Impact of using a validated delirium screening tool, with or without a pharmacist and nurse-led delirium education program, on the ability of nurses to recognize delirium in a surgical-trauma ICU*. Platform presentation at the Society of Critical Care Medicine's 2011 Critical Care Congress, San Diego, CA.
54. Roberts, R., Benoit, M., Murphy, L., Schumaker, G., Garpestad, E., & **Devlin, J.W.** [2010 January] *Impact of enteral methadone on the ability to wean continuously-infused fentanyl in critically ill adults*. Poster presentation at the Society of Critical Care Medicine's 2010 Critical Care Congress, Miami, FL
53. **Devlin, J.W.**, Roberts, R., Fong, J.J., Skrobik, Y., Riker, R.R., Hill, N.S., & Garpestad, E. [2009, February]. *Efficacy and safety of quetiapine for delirium in the ICU: A randomized, double-blind, placebo-controlled study*. Presented as a platform presentation at the Society of Critical Care Medicine's 2009 Critical Care Congress, Nashville, TN.
52. Roberts, R. Schumaker, G., Fong, J., Barletta, J., Gerlach, T., Voils, S., Kuper, P., Szumita, P., Anger, K., Papadopoulos, S., Grgurich, P., Kendall, E., Xamplas, R., Arpino, P., Ruthazer, R., & **Devlin, J.W.** [2009, February]. *Incidence of the propofol infusion syndrome in critically ill adults*. Poster presentation at the Society of Critical Care Medicine's 2009 Critical Care Congress, Nashville, TN.
51. Roberts, R. Schumaker, G., Fong, J., Barletta, J., Gerlach, T., Voils, S., Kuper, P., Szumita, P., Anger, K., Papadopoulos, S., Grgurich, P., Kendall, E., Xamplas, R., Arpino, P., Ruthazer, R., **Devlin, J.W.** [2009, February]. *Failure of a FDA MEDWATCH-derived scoring system to predict mortality in patients with suspected propofol infusion syndrome*. Poster presentation at the Society of Critical Care Medicine's 2009 Critical Care Congress, Nashville, TN.
50. Roberts, R. de Wit, M., Varney, K., Epstein, S.K., **Devlin J.W.** [2009, February]. *Patient-related factors that predict daily sedation interruption by nurses*. Poster presentation at the Society of Critical Care Medicine's 2009 Critical Care Congress, Nashville, TN.
49. Roberts, R. de Wit, M., Varney, K., Epstein, S.K., **Devlin J.W.** [2009, February]. *Nurse-related factors that predict daily sedation interruption by nurses*. Poster presentation at the Society of Critical Care Medicine's 2009 Critical Care Congress, Nashville, TN.
48. **Devlin, J.W.**, Fong, J.J., Howard, E., McCoy, N., Yasuda, C., Marshall, J., Roberts, [2008, February]. *Nursing practices and perceptions towards delirium assessment in the intensive care unit*. Presented at the Society of Critical Care Medicine's 2008 Critical Care Congress, Honolulu, HI.
47. Fong, J., Sylvia, L., Ruthazer, R., Schumaker, G., KComt, M., **Devlin, J.W.**, [2008, February]. *Predictors of mortality in*

patients with propofol infusion syndrome. Presented at the Society of Critical Care Medicine's 2008 Critical Care Congress, Honolulu, HI.

46. Olsen, K.M., **Devlin, J.W.** [2008, February]. *Comparison of oral and intravenous lansoprazole pharmacodynamic response in the critically ill.* Presented at the Society of Critical Care Medicine's 2008 Crit Care Congress, Honolulu, HI.

45. Lancaster, J., Lawrence, K., Fong, J., Doron, S., Garpestad, E., **Devlin, J.W.** [2008, February]. *Impact of an institutional hospital-acquired pneumonia protocol on the appropriateness of antibiotic therapy and patient outcomes.* Presented at the Society of Critical Care Medicine's 2008 Critical Care Congress, Honolulu, HI.

44. **Devlin, J.W.**, Fong, J., Schumaker, G., Ruthazer, R., O'Connor, H. & Garpestad, E. [2007, February]. *Use of a validated delirium assessment tool improves the ability of physicians to recognize delirium in medical intensive care unit (MICU) patients.* Accepted for platform presentation at the Society of Critical Care Medicine's 2007 Critical Care Congress, Orlando, FL.

43. **Devlin, J.W.**, Marquis, F., Riker, R., Bruce, H., Robbins, T., Fong, J., Garpestad, E., Didomenico, D., Yasuda, C. & Skrobik, Y. [2007, February]. *Challenges in recognizing delirium: Impact of scenario-based education on nursing bedside assessment.* Accepted for poster presentation at the Society of Critical Care Medicine's 2007 Critical Care Congress, Orlando, FL.

42. **Devlin, J.W.**, Nava, S., Bahhady, I. & Hill, N. [2007, February]. *Survey of sedation practices for noninvasive positive-pressure ventilation to treat acute respiratory failure.* Accepted for poster presentation at the Society of Critical Care Medicine's 2007 Critical Care Congress, Orlando, FL.

41. Fong, J., Cecere, K., Unterborn, J., Garpestad, E., Klee, M. & **Devlin, J.W.** [2007, February]. *Characterizing compliance variability among three different severe sepsis bundles at an academic medical center.* Accepted for poster presentation at the Society of Critical Care Medicine's 2007 Critical Care Congress, Orlando, FL.)

40. Fong, J., Kanji, S., Garpestad, E., Dasta, J., Turbett, A. & **Devlin, J.W.** [2007, February]. *Propofol is associated with a shorter duration of mechanical ventilation than scheduled intermittent lorazepam in both medical and surgical intensive care unit patients.* Accepted for poster presentation at the Society of Critical Care Medicine's 2007 Critical Care Congress, Orlando, FL.

39. Lancaster, J., Fong, J.J., Lawrence, K., Doron, S. & **Devlin, J.W.** [2006, December]. *Impact of institutional hospital-associated pneumonia treatment guidelines on the appropriateness of initial antibiotic selection and subsequent antibiotic de-escalation.* Accepted for poster presentation at the 2006 American Society of Health System Pharmacist's Clinical Midyear Meeting, Anaheim, CA.

38. **Devlin, J.W.**, Metz, D.C., Vakily, M., Atkinson, S. & Lloyd, E. [2006, October]. *Administering lansoprazole as a two-minute intravenous injection provides a similar pharmacokinetic, pharmacodynamic, and safety profile as a 30-minute infusion.* Poster presented at the American College of Clinical Pharmacy's 2006 Annual Meeting, St. Louis, MO.

37. Qualter, D., Van Amburgh, J., **Devlin, J.W.** & Kirwin, J. [2006, October]. *Capture the action! Development of a valid and reliable active learning inventory tool.* Platform presentation at the POD Network Conference, Portland, OR.

36. **Devlin, J.W.**, VanAmburgh, J., Kirwin, J. & Qualter, D. [2006, July]. *To do or not to do: Faculty perceptions of active learning in large classes.* Poster presented at the American Association of Colleges of Pharmacy 2006 Annual Meeting, San Diego, CA.

35. VanAmburgh, J., **Devlin, J.W.**, Kirwin, J. & Qualter, D. [2006, July]. *Capturing the action! Development of a valid and reliable active learning inventory tool.* Poster presented at the American Association of Colleges of Pharmacy 2005 Annual Meeting, San Diego, CA.

34. Divall, M., **Devlin, J.W.**, Douglass, M., Gonyeau, M., Pomfret & T. & Trujillo, J. [2006, July]. *Enhancing students' ability to identify and manage drug-related problems throughout a therapeutics course series.* Poster presented at the American Association of Colleges of Pharmacy 2006 Annual Meeting, San Diego, CA.

33. Gonyeau, M., **Devlin, J.W.**, Douglass, M., Divall, M., Pomfret, T. & Trujillo, J. [2006, July]. *Current practices and beliefs regarding the use of capstone experiences in U.S. schools of pharmacy.* Poster presented at the American Association of Colleges of Pharmacy 2006 Annual Meeting, San Diego, CA.

32. Cecere, K., Fong, J., Klee, M. & **Devlin, J.W.** [2005, December]. *Adherence to severe sepsis quality indicators at an academic medical center: A baseline analysis.* Poster presented at the American Society of Health System Pharmacist's 2005 Clinical Midyear Meeting, Las Vegas, NV.

31. Bakshi, A., Bungay, K.M., Olsen, K.M. & **Devlin, J.W.** [2005, October]. *An in vitro comparison of different providers to deliver four proton pump inhibitor (PPI) products through a feeding tube.* Poster presented at the American College of Clinical Pharmacy's 2005 Annual Meeting, San Francisco, CA.

30. Tanios, M.A., **Devlin, J.W.** & Epstein, S.K. [2005, May]. *Perceived barriers to implementing strategy of daily interruption of sedative in the intensive care unit for critically ill patients.* Platform presented at the American Thoracic Society's 2005 Annual Scientific Meeting, San Diego, CA.

29. **Devlin, J.W.**, Tanios, M. & Epstein, S. [2005, January]. *Current practices, beliefs and attitudes on sedation in the intensive care unit using a large scale national survey.* Poster presented at the Society of Critical Care Medicine's 2005

Congress, Phoenix, AZ.

28. Kane, S., **Devlin, J.W.** & Cohen, H. [2005, January]. *A national survey of adverse medication reporting and assessment practices in the intensive care unit (ICU)*. Poster presented at the Society of Critical Care Medicine's 2005 Congress, Phoenix, AZ.
27. MacLaren, R., Bond, C.A., **Devlin, J.W.** & Martin, S. [2005, January]. *A national survey characterizing the current practice of critical care pharmacists*. Poster presented at the Society of Critical Care Medicine's 2005 Congress, Phoenix, AZ.
26. Napoli, K.N., VanAmburgh, K. & **Devlin, J.W.** [2004, December]. *Impact of a clinical pharmacist providing collaborative care on clinical outcomes in a population of patients with diabetes at an urban community health center*. Poster presented at the American Society of Health System Pharmacist's 2004 Clinical Midyear Meeting, Orlando, FL.
25. **Devlin, J.W.**, Lau, A.K. & Tanios, M. [2004, October]. *Propofol-associated hypertriglyceridemia and pancreatitis: An incidence and risk factor analysis*. Platform presentation at the American College of Clinical Pharmacy's 2004 Annual Meeting, Dallas, TX.
24. Ahrens, C.L., Barletta, J.F., Kanji, S., Tyburski, J.G., Wilson, R.F., Simmons, S. & **Devlin, J.W.** [2003, January]. *The effect of a hypocaloric parenteral nutrition regimen on the incidence of hyperglycemia and insulin requirements in surgical patients*. Poster presented at the Society of Critical Care Medicine's 2003 Critical Care Congress, San Antonio, TX.
23. Seta, M., Somerville, A. & **Devlin, J.W.** [2003, January]. *A retrospective analysis of the effects of fenoldopam versus nitroprusside on blood pressure, renal function, toxicity, and hospital costs in patients admitted with hypertensive emergencies*. Poster presented at the Society of Critical Care Medicine's 2003 Critical Care Congress, San Antonio, TX.
22. Nguyen, C., Barletta, J.F. & **Devlin, J.W.** [2002, December]. *A national survey of acid suppression prescribing practice in the acutely ill*. Poster presented at the American Society of Health System Pharmacist's 2002 Clinical Midyear Meeting, Atlanta, GA.
21. Kanji, S., Betancourt, M., Kruse, J.A. & **Devlin, J.W.** [2002, April]. *Validating the use of ICD-9 based search strategies to identify patients with severe sepsis who may be candidates for drotrecogin alfa (activated) therapy*. Presented at the American College of Clinical Pharmacy's 2002 Spring Practice and Research Meeting, Savannah, GA.
20. Kanji, S., McKinnon, P.S., Barletta, J.F., Kruse, J.A. & **Devlin, J.W.** [2002, January]. *Bioavailability of gatifloxacin by nasogastric administration with and without concomitant enteral feeding in critically ill patients*. Poster presented at the Society of Critical Care Medicine's 2002 Critical Care Congress, San Diego, CA.
19. Delgado, G., Barletta, J.F., Kanji, S., Tyburski, J.G., Wilson, R.F. & **Devlin, J.W.** [2002, January]. *Characteristics of prophylactic antibiotic strategies following penetrating abdominal trauma at a level one urban trauma center: A comparison to the EAST Guidelines*. Paper presented at the Eastern Association for the Surgery of Trauma's 2002 Scientific Meeting, Orlando, FL.
18. Tyburski, J.G., Dente, C., Wilson, R.F., Steffes, C., **Devlin, J.W.**, Carlin, A., Shanti, C. [2001, March]. *Differences in arterial and mixed venous IL-6 Levels: The lungs as a source of cytokine storm in sepsis*. Paper presented at the Central Surgical Association's 2001 Annual Scientific Meeting, Tucson, AZ.
17. Kanji, S., Barletta, J.F., Janisse, J.J. & **Devlin, J.W.** [2001, February]. *Continuous cisatracurium therapy requires greater dose increases over time than continuous pancuronium therapy*. Poster presented at the Society of Critical Care Medicine's 2001 Critical Care Congress, San Francisco, CA.
16. Diebel, L.N., Liberati, D.M., Brown, W.J., Painter, T., Dulchavsky, S.A. & **Devlin, J.W.** [2000, November]. *IGA protease is a virulence factor for gram negative pneumonia*. Paper presented at the Western Trauma Association's 2000 Annual Scientific Meeting, Big Sky, MT.
15. Marie, A., **Devlin, J.W.**, Barletta, J., McKinnon, P.S. & Rybak, M.R. [2000, October]. *Expected cost savings not realized with the addition of oral levofloxacin to the formulary at a tertiary, level 1 trauma center*. Poster presented at the 2000 Annual Meeting of the American College of Clinical Pharmacists, Los Angeles, CA.
14. McKinnon, P.S., Goff, D., Kern, J., **Devlin, J.W.**, Sierawski, S., Barletta, J., Mosenthal, A., Kaul, S., Patel P., Gore P., Ambegaonkar, A.J. & Lubowski, T.J. [2000, September]. *A multicenter analysis of the temporal relationship between candidemia risk factors, candida colonization and infection, and antifungal therapy in surgical intensive care unit (SICU) patients*. Platform presented at the 2000 International Congress of Antimicrobials and Chemotherapy, Chicago, IL.
13. Douglass, M.A., Tran, A.H., **Devlin, J.W.** & Racine, E. [2000, April]. *Inter-hospital comparison of quality indicators for a pharmacist-managed anticoagulation service within a large academic health system*. Poster presented at the 2000 Spring Meeting of the Annual Meeting of the American College of Clinical Pharmacists, Monterrey, CA.
12. **Devlin, J.W.**, Coplin, W.M., Swarczinski, C., Leacock, R., Lewis, R. & Kruse, J.A. [2000, January]. *Reliability of nursing train-of-four assessment for ICU patients receiving continuous neuromuscular blockade*. Poster presented at the Society of Critical Care Medicine's 2000 Critical Care Congress, Orlando, FL.
11. **Devlin, J.W.**, Coplin, W.M., Swarczinski, C., Leacock, R., Lewis, R. & Kruse, J.A. [2000, January]. *Validity of nursing train-of-four assessment for ICU patients receiving continuous neuromuscular blockade*. Poster presented at the Society of Critical Care Medicine's 2000 Critical Care Congress, Orlando, FL.



10. Claire, K.S., **Devlin, J.W.**, Higgins, B., Smolarek, R.T. & Wilczack, J. [1999, December]. *Use of a structured survey of anesthesia providers to develop consensus guidelines for the perioperative use of neuromuscular blockers*. Poster presented at the American Society of Health System Pharmacist's 1999 Clinical Midyear Meeting, Orlando, FL.
9. **Devlin, J.W.**, Tyburski, J., & Moed, B. [1999, October]. *Implementation and evaluation of enoxaparin deep vein thrombosis prophylaxis guidelines after major trauma*. Poster presented at the 1999 Annual Meeting of the American College of Clinical Pharmacists, Kansas City, MO.
8. Claire, K.S., Renaud, E.A. & **Devlin, J.W.** [1998, December]. *Standardization of pain management across an eight hospital health system*. Poster presented at the American Society of Health System Pharmacist's 1998 Clinical Midyear Meeting, New Orleans, LA.
7. **Devlin, J.W.**, Claire, K.S., Karmo, N.B., Dulchavsky, S. & Tyburski, J.M. [1998, October]. *Impact of trauma stress ulcer prophylaxis guidelines on drug use and incidence of major gastrointestinal bleeding*. Platform presented at the 1998 Annual Meeting of the American College of Clinical Pharmacists, Cincinnati, OH.
6. **Devlin, J.W.**, Boleski, G., Mlynarek, M., Nerenz, D., Peterson, E., Horst, H.M. & Zarowitz B.J. [1998, January]. *The Motor Activity Assessment Scale: A valid and reliable sedation scale for use in adult, mechanically ventilated, surgical ICU patients*. Platform presented at the Society of Critical Care Medicine's 1998 Critical Care Congress, San Antonio, TX.
5. Mazur, J.E., **Devlin, J.W.**, Peters, M.J., Iannuzzi, M.C. & Zarowitz, B.J. [1998, January]. *Single versus multiple doses of acetazolamide for metabolic alkalosis in critically ill medical patients: A randomized, double-blind trial*. Poster presented at the Society of Critical Care Medicine's 1998 Critical Care Congress, San Antonio, TX
4. **Devlin, J.W.**, Peters, M., Ulep, S., Ben-Menachem, T., Fogel, R. & Zarowitz, B.J. [1997, October]. *Stress ulcer prophylaxis in medical ICU patients: Annual utilization in relation to the incidence of endoscopically-proven stress-related gastritis over a four year period*. Poster presented at the 1997 Annual Meeting of the American College of Clinical Pharmacists, Phoenix, AZ.
3. **Devlin, J.W.**, Pettita, A., Shepard, A. & Obeid, F.N. [1997, October]. *Cost-effectiveness of enoxaparin versus low-dose heparin in the prevention of venous thromboembolism after major trauma*. Poster presented at the 1997 Annual Meeting of the American College of Clinical Pharmacists, Phoenix, AZ.
2. **Devlin, J.W.**, Holbrook, A.M. & Fuller, H.D. [1997, February]. *The effect of evidence-based sedation guidelines on clinical outcomes and drug cost*. Poster presented at the Society of Critical Care Medicine's 1997 Critical Care Congress, San Diego, CA.
1. **Devlin, J.W.**, Mlynarek, M., Peters, M., Slavik, R., Horst, M., Hyzy, R. & Zarowitz, B.J. [1997, February]. *Drug-related admissions to intensive care units*. Poster presented at the Society of Critical Care Medicine's 1997 Critical Care Congress, San Diego, CA.

## Invited Lectures

### International

14. *Key considerations when designing and conducting a medication-focused delirium clinical trial*. Presented at the 2017 European Delirium Society Meeting. Oslo, Norway [November 2017]
13. *Clarifying the confusion surrounding drug associated delirium in the ICU*: Presented at the 2015 European Delirium Society Annual Meeting. London, UK [September 2015]
12. *Critical care pharmacists: a key resource to improve drug-associated outcomes in British ICUs*. Critical care rounds. St Thomas's Hospital, London, UK [September 2015]
11. *Controversies surrounding the prevention and treatment of delirium in critically ill adults*. Critical care grand rounds: University College Hospital, London, UK [September 2015]
10. *Optimizing strategies to prevent coma and delirium in the ICU*. Presented at 2013 Dutch National Symposium on Critical Care, Ede, NL [February 2013]
9. *Highlights of the 2012 SCCM pain, agitation and delirium consensus guidelines*. Invited presentation at the 2012 Canadian ICU Collaborative Annual Meeting, Toronto, ON [May 2012]
8. *ICU Delirium: pharmacologic prevention and treatment*. Invited presentation at the 30<sup>th</sup> International Symposium and Intensive Care and Emergency Medicine, Brussels, Belgium [March 2012]
7. *Optimizing sedation in the ICU: The importance of the multidisciplinary team*. Invited presentation at the 30<sup>th</sup> International Symposium and Intensive Care and Emergency Medicine, Brussels, Belgium [March 2012]
6. *The interaction between sedation drug cost and long term patient outcome*. Invited presentation at the 30<sup>th</sup> International Symposium and Intensive Care and Emergency Medicine. Brussels, Belgium [March 2012]
5. *Economics in sedation: Responsible use of the ICU budget*. Presented as part as an International Consensus Conference: Acute Care Sedation: Targeting Delirium and Duration at the Canadian Critical Care Forum. Toronto,

Canada [November 2011]

4. *The cost of appropriate sedation in the ICU.* Invited presentation at the Canadian Critical Care Forum. Toronto, Canada [November 2010]

3. *Therapeutic Debate: Why propofol should be the first-line sedative in mechanically ventilated patients.* Invited presentation at the Canadian Critical Care Forum. Toronto, Canada [November, 2010]

2. *Cost considerations when optimizing sedation in the ICU.* Invited presentation at the 33<sup>rd</sup> annual meeting of the Mexican Society of Critical Care Medicine. Monterrey, Mexico. [September, 2010]

1. *The interface between sleep and delirium in the critically ill.* Invited presentation at the Annual Congress of the European Respiratory Society. Vienna, Austria. [September, 2009].

## National

42. *The 2018 SCCM PADIS guidelines: what's new?* Presented at the American Delirium Society's 2018 Annual Meeting, San Francisco, CA [June 2018]

41. *The role for antipsychotic therapy for delirium. Debate: Con.* Presented at the American Delirium Society's 2018 Annual Meeting, San Francisco, CA [June 2018]

40. *The war on drugs: optimizing sedation for the older adult in the ICU.* Presented at the Society of Critical Care Medicine's 2018 Critical Care Congress, San Antonio, TX [January 2018]

39. *Delirium prevention and treatment.* Presented at the Society of Critical Care Medicine's ICU Liberation Conference. Nashville TN [September 2017]

38. *Pain assessment and treatment.* Presented at the Society of Critical Care Medicine's ICU Liberation Conference. Nashville TN [September 2017]

37. *Choice of sedation.* Presented at the Society of Critical Care Medicine's ICU Liberation Conference. Nashville TN [September 2015]

36. *Pain, agitation and delirium: Beyond the guidelines.* Presented at the Society of Critical Care Medicine's 2015 Critical Care Congress, Phoenix, AZ [January 2015]

35. *Reducing adverse drug events in critically ill older adults.* Presented at the Society of Critical Care Medicine's 2015 Critical Care Congress, Phoenix, AZ [January 2015]

34. *Optimizing delirium recognition and prevention in the critically ill.* Presented at the American Society of Health System Pharmacists 2013 Clinical Midyear Meeting, Anaheim, CA [December 2013]

33. *Understanding factors that affect sleep quality in the ICU.* Presented at the Society of Critical Care Medicine's 2014 Critical Care Congress, San Francisco, CA [January 2014]

32. *Implementing the 2013 ICU pain, agitation and delirium guidelines. Opportunities for pharmacists to lead interdisciplinary change.* Presented at the American Society of Health System Pharmacists 2012 Clinical Midyear Meeting, Orlando, FL [December 2013]

31. *The 2013 PAD guidelines: Clarifying the evidence and establishing pharmacist's priorities.* Presented at the American Society of Health System Pharmacists 2012 Clinical Midyear Meeting, Orlando, FL [December 2013]

30. *The Pharmacist's role in implementing the new pain, agitation, delirium guidelines in the critical care setting.* Presented at the American Society of Health System Pharmacists 2012 Clinical Midyear Meeting, Las Vegas, NV [December 2012]

29. *Securing grant funding for clinical research: stories of success.* Presented at the 2012 Annual Meeting of the American College of Clinical Pharmacists. Hollywood, FL [October 2012]

28. *Update on preventing and treating delirium in the critically ill.* Presented at the American Society of Health System Pharmacists 2011 Clinical Midyear Meeting, New Orleans, LA [December 2011]

27. *Recognizing, preventing and treating delirium in the critically ill.* Presented at the 2011 Annual Meeting of the American College of Clinical Pharmacists. Pittsburg, PA [October 2011]

26. *State-of-the-Art sedation management: It's as easy as ABCDE.* Presented at the 2011 American Association of Critical-Care Nurses (AACN) National Teaching Institute, Chicago, IL [May 2011]

25. *Pharmacologic mechanisms of immunosedation: opioids and alpha agonists.* Presented at the Society of Critical Care Medicine's 2011 Critical Care Congress, San Diego, CA [January 2011]

24. *Therapeutic debate. Dexmedetomidine should be used as the initial sedative in mechanically ventilated patients in the ICU: Pro.* Presented at the American Society of Health System Pharmacists 2010 Clinical Midyear Meeting, Anaheim, CA [December 2010]

23. *Delirium in the critically ill: The pharmacist's role in identification, prevention and treatment.* Presented at the American Society of Health System Pharmacists 2010 Clinical Midyear Meeting, Anaheim, CA [December 2010]

22. *Delirium identification and treatment in the ICU.* Presented at the American Society of Health System Pharmacists 2010 Clinical Midyear Meeting, Anaheim, CA [December 2010]

21. *Haloperidol is the “go to” drug for delirium: but are atypicals a better option?* Presented at the at the Society of Critical Care Medicine’s 2010 Critical Care Congress, Miami, FL [January 2010]
20. *Treating agitation and delirium: providing clarity to an alphabet soup of potential options.* Presented at the at the Society of Critical Care Medicine’s 2010 Critical Care Congress, Miami, FL [January 2010]
19. *Perspectives on serious adverse events with proton pump inhibitors.* Presented at the American College of Clinical Pharmacy’s 2008 Annual Meeting. Louisville, KY. [2008, October].
18. *Optimizing strategies to reduce the incidence of oversedation in your ICU.* Presented as a web-based conference to VHA’s quarterly TICU quality improvement educational series. [2008, May]
17. *Debate: What is the optimal sedation regimen for patients mechanically ventilated > 24 hours: Demedetomidine vs benzodiazepines vs propofol?* Presented at the Society of Critical Care Medicine 2008 Pharmacotherapy Symposium. Philadelphia, PA (also served as symposium chair) [2008, March]
16. *Atypical presentations of GERD in older patients.* Presented as a national teleconference via Princeton CME. [2008 February].
15. *Scoring systems to optimize sedation.* Presented at the at the Society of Critical Care Medicine’s 2008 Critical Care Congress, Honolulu, HI [February 2008]
14. *Best ICU practices: Delirium screening.* Presented at the 36<sup>th</sup> Congress of the Society of Critical Care Medicine. Orlando, FL. [2007, February].
13. *Developing a programmatic approach to your research.* Presented at a Pre-congress Research Symposium prior to the 36<sup>th</sup> Congress of the Society of Critical Care Medicine. Orlando, FL. [2007, February].
12. *Acute agitation or is it delirium?* Presented in a Pre-meeting Symposium: Current controversies in critical care pharmacotherapy: Incorporating evidence into practice the American College of Clinical Pharmacy’s 2006 Annual Meeting. St. Louis, MO. [2006, October].
11. *Sedation titration – Are sedation scores enough or should EEG monitoring be used?* Presented at Society of Critical Care Medicine’s 2005 Pharmacotherapy Symposium. Chicago, IL. [2005, November].
10. *Immunomodulating effects of commonly used ICU drugs: Lipid-based products.* Presented at the Society of Critical Care Medicine’s 2005 Congress, Phoenix, AZ. [2005, January].
9. *Pharmacology year in review: Sedation, analgesia, and delirium.* Presented at the Society of Critical Care Medicine’s 2005 Congress, Phoenix, AZ. [2005, January].
8. *Optimizing acid suppressive therapy for the critically ill patient: Treatment options and formulary considerations.* Presented as a Pre-Meeting Symposium at the 2004 American Society of Health System Pharmacist’s Clinical Midyear Meeting, Orlando, FL (also served as symposium chair) [2004, December].
7. *Intravenous proton pump inhibitors for the treatment and prevention of upper gastrointestinal bleeding: Exploring the controversies.* Presented as a Pre-Meeting Symposia at the 2003 American Society Health System Pharmacist’s Clinical Midyear Meeting, New Orleans, LA. (also served as symposium chair) [2003, December].
6. *Clinical trial design.* Presented as part of The Pharmacotherapy Preparatory Course at the American College of Clinical Pharmacy’s 2003 Spring Practice and Research Meeting. Palm Springs, CA [2003, April].
5. *Controversies in the management of upper gastrointestinal bleeding:* Presented as a Pre-Meeting Symposia at the American College of Clinical Pharmacy’s 2003 Spring Practice and Research Meeting, Palm Springs, CA. (also served as symposium chair) [2003, April].
4. *Critical care guideline review: Neuromuscular blockade in critically ill patients.* Presented at the American College of Clinical Pharmacy’s 2002 Spring Practice and Research Meeting. Savannah, GA. [2002, April].
3. *Optimizing acid suppressive therapy in acutely ill patients: When the proton pump inhibitors come marching in.* Presented as a Pre-Meeting Symposium at the 2001 American Society of Health System Pharmacist’s Clinical Midyear Meeting, New Orleans, LA (also served as symposium chair) [2001, December].
2. *Optimizing DVT prophylaxis in the critically ill.* Presented at the Society of Critical Care Medicine’s 2001 Critical Care Congress, San Francisco, CA. [2001, February].
1. *Optimizing DVT prophylaxis in surgical patients: Avoid rolling the dice!* Presented as a Pre-Symposium at the 2000 American Society of Health System Pharmacist’s Midyear Clinical Meeting: Contemporary antithrombotic therapy: Evaluating the clinical and economic outcomes. Las Vegas, NV. [2000, December].

## Research Funding

### External

### Under Review

R21/R34 (resubmission Nov 2017)

12/17 to 11/21

NIA

\$1,232,923 (Devlin effort = \$123,929 (10%).

**Clarifying the relationship between delirium, Alzheimer's disease, and related dementias.**

### **Current**

AstraZeneca Pharmaceuticals  
\$ 156, 000

11/15 to 10/17

**Naloxegol (Movantik) for the Prevention of Opioid Induced Constipation in Critically Ill Adults Initiated on Scheduled IV Opioid Therapy: A Randomized, Double-blind, Placebo- Controlled, Pilot Study.**

This pilot study seeks to evaluate and efficacy and safety of naloxegol for the prevention of opioid induced constipation in critically ill adults.

Role: PI

R01 HL111111

NHLBI

\$ 86,000 (Devlin effort)

8/12 to 7/17

**The MENDS-II Study: Maximizing the Efficacy of Sedation and Reducing Neurological Dysfunction and Mortality in Septic Patients With Acute Respiratory Failure**

The MENDS II study will compare propofol and dexmedetomidine, and determine the best sedative medication to reduce delirium and improve survival and long-term brain function in our most vulnerable patients— the ventilated septic patient.

Role: Co-I (P. Pandharipande, PI)

1R21G04567212-01A1

3/1/15 – 2/18/17

National Institutes of Aging

\$250,000 (Devlin effort: \$18,000)

**Consequences of Reducing Antipsychotic Prescribing in Nursing Homes**

The objectives of this study are to describe the current landscape of antipsychotic use in the nursing home setting and estimate how the antipsychotic reduction campaign influenced prescribing.

Role: Co-I (B. Briesacher,

### **Past**

Saudi Arabian Cultural Ministry

7/1/13 – 6/30/16

\$151,200

**Financial Support for Abdullah Al-Hammad, PharmD, Critical Care Fellowship Program**

Role: PI

Hospira Pharmaceuticals

6/12 to 5/15

\$ 220,000 (Devlin effort \$ 30,000 Northeastern University; \$30,000 Tufts Medical Center)

**The effect of a dexmedetomidine nocturnal sleep protocol on delirium incidence, sleep quality and healthcare costs in critically ill patients: A prospective randomized, double-blind, pilot study**

The primary goal of this study is to determine whether a dexmedetomidine nocturnal sleep protocol will reduce delirium and improve sleep quality among patients requiring admission to the ICU.

Role: Co-I (Y. Skrobik MD, PI)

Hospira Pharmaceuticals

9/12 to 12/14

\$ 28,000

**Incidence, characterization and outcomes of adverse effects associated with IV sedation in the United States over an 8 year period.**

The primary goal of this project is to collaborate with Adverse Events Inc (a beta-stage, web-based, searchable database of the FDA's MedWatch system and IMS Inc to determine the incidence, types and outcomes of adverse events associated with IV sedation in the United States between 2004 and 2011.

Role: PI

1R15AG034915-01A1

9/10 to 8/13

National Institutes of Aging

\$ 322,345

**Preventing ICU subsyndromal delirium conversion to delirium with haloperidol**

The primary goal of this ICU clinical study is determine whether the administration of low-dose IV haloperidol in mechanically ventilated patients with subsyndromal delirium prevents delirium.

Role: PI

Nederlandse Organisatie voor Wetenschappelijk (NWO)

1/13 to 4/13

€ 4,400

**NWO visiting scientist travel grant**

The primary goal of this travel grant (from Netherland's equivalent to the NIH) is to support the travel costs of Dr. Devlin during a 2 month sabbatical visit to Utrecht Medical Center to work with Dr. Arjen Slooter's ICU delirium research team.

Role: Co-I (A Slooter, MD, PhD, PI)

Hospira Pharmaceuticals

9/09 to 12/12

\$ 68,000 (\$32,000 Northeastern University)

**Efficacy and safety of dexmedetomidine during non-invasive positive pressure ventilation for patients with acute respiratory failure: a randomized, double-blind, placebo-controlled study.**

This randomized, double-blind, placebo-controlled ICU clinical study is seeking to determine whether the addition of low-dose dexmedetomidine sedation improves non-invasive ventilation tolerance and comfort for patients admitted to the ICU with acute respiratory failure who are being managed by non-invasive ventilation.

Role: Co-I (N. Hill, MD, PI)

Canadian Foundation for Critical Care Research

06/10 to 3/12

\$26,800 (\$ 6,800 Northeastern University)

**Psychological, cognitive, and sleep morbidity following the use of a sedation protocol vs. a sedation protocol and daily sedative interruption in critically ill, mechanically ventilated adults. SLEAP-Sleep, Cognition and Psychology (SLEAP-SCP) Study**

Role: Co-I (S. Mehta, MD, PI)

Canadian Institute for Health Research

10/08 to 3/12

\$ 1.2 million (\$ 75, 000 Northeastern University)

**Randomized trial of daily sedative interruption in critically ill, mechanically ventilated patients being managed with a sedation protocol.**

Role: Co-I (S. Mehta, MD, PI)

National Institutes of Health

7/08 to 6/10

**Expert panel member of the Therapeutics, Development and Implementation Component of the Tufts University School of Medicine's Clinical and Translational Science Initiative.**

Role: Co-Investigator (Principal Investigator: H. Selker, MD) Amount: \$ 5,800 [2.5% Devlin salary support x 2 years]

Hospira Pharmaceuticals

9/08 to 8/09

\$21,360

**Prevalence of symptoms associated with the propofol infusion syndrome (PRIS) and validation of a PRIS mortality scoring system.**

Role: PI

University of Massachusetts Medical School

7/07 to 6/08

\$36, 000

**Studying the treatment of acute hypertension (STAT).**

Role: PI

Society of Critical Care Medicine Pharmacy Fellowship Award

7/07 to 6/09

\$30, 000

**A program of delirium investigation.**

Role: PI

|                                   |            |              |
|-----------------------------------|------------|--------------|
| Society of Critical Care Medicine | \$ 30, 000 | 9/05 to 8/07 |
| AstraZeneca Pharmaceuticals       | \$ 40, 000 | 9/05 to 8/07 |

**The efficacy and safety of quetiapine in medical intensive care unit patients with delirium: A randomized, double-blind, placebo-controlled study.**

Role: PI

|                             |           |               |
|-----------------------------|-----------|---------------|
| TAP Pharmaceutical Products | \$77, 157 | 11/04 to 6/07 |
|-----------------------------|-----------|---------------|

**Comparison of enteral vs. parenteral lansoprazole pharmacodynamic response in critically ill patients.**

Role: PI

**SERVICE AND PROFESSIONAL DEVELOPMENT**

**Service to the Profession**

**Editorial Board Activities**

|              |                                                                                     |
|--------------|-------------------------------------------------------------------------------------|
| 2005-Present | Critical Care Medicine, Editorial Board (reappointed in 2017 to a 5th, 3-year term) |
| 2007-Present | Pharmacotherapy, Editorial Board (reappointed in 2016 to a 4th, 3-year team)        |
| 2003-2009    | Annals of Pharmacotherapy, Chair, Critical Care Editorial Advisory Panel            |
| 2003-2011    | Pharmacy Practice News, Critical Care Editor                                        |

**Reviewing Activities**

|              |                                                                                                                                                                                                                |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2017         | Lancet, New England Journal Medicine, JAMA                                                                                                                                                                     |
| 2017         | Grant reviewer, the Canadian Frailty Network.                                                                                                                                                                  |
| 2013         | Grant reviewer, Singapore National Medical Research Council                                                                                                                                                    |
| 2012         | Grant reviewer, Technology Evaluation in the Elderly Network, Health Canada                                                                                                                                    |
| 2012, 2013   | Grant reviewer, Netherlands Organisation for Scientific Research (NWO)                                                                                                                                         |
| 2011         | Cochrane Collaboration. SARGs group. Methods paper: Prevention of delirium in the ICU.                                                                                                                         |
| 2010         | Grant reviewer, German Ministry of Health.                                                                                                                                                                     |
| 2008         | Grant reviewer, 2008 New Investigator Program, American Association of Colleges of Pharmacy Best Poster Review Committee, 2008 ACCP Annual Meeting                                                             |
| 2007         | Grant reviewer, Canadian Institute for Health Research, Health Canada                                                                                                                                          |
| 2005         | American College of Clinical Pharmacy, Gastrointestinal Investigator Development Research Award, grant reviewer.                                                                                               |
| 2005-2008    | Society of Critical Care Medicine, Pharmacy Fellowship Grant, grant reviewer                                                                                                                                   |
| 2004         | American College of Clinical Pharmacy PSAP-V Reviewer for "Literature Evaluation" in Science and Practice of Pharmacotherapy I.", chapter reviewer. Tufts-NEMC Scientific Review Committee, protocol reviewer. |
| 2003-2009    | Annals of Pharmacotherapy, Chair, Critical Care Editorial Advisory Panel                                                                                                                                       |
| 2002-Present | American Journal Health System Pharmacists, manuscript reviewer.                                                                                                                                               |
| 2001-2005    | Critical Care Nurse, manuscript reviewer.                                                                                                                                                                      |
| 2000-2002    | Journal of Informed Pharmacotherapy, Critical Care Section Editor                                                                                                                                              |
| 1999-2003    | Annals of Pharmacotherapy, Critical Care Editorial Advisory Panel                                                                                                                                              |
| 1999-Present | Society Critical Care Medicine, abstract reviewer.                                                                                                                                                             |
| 1997-Present | Pharmacotherapy, manuscript reviewer.                                                                                                                                                                          |
| 1997-Present | Critical Care Medicine, manuscript reviewer.                                                                                                                                                                   |
| 1997-Present | American College of Clinical Pharmacy, abstract reviewer.                                                                                                                                                      |
| 1997-Present | Canadian Journal of Hospital Pharmacy, manuscript reviewer                                                                                                                                                     |
| 1998         | ADIS Press, Discern-Insight Series: "Rational Use of Sedating Agents in the ICU", chapter reviewer.                                                                                                            |
| 1997         | American Society of Health-System Pharmacists Guidelines for Stress Ulcer Prophylaxis, reviewer.                                                                                                               |

**Consultations/Committees**

|              |                                            |
|--------------|--------------------------------------------|
| 2017-present | President-elect, American Delirium Society |
|--------------|--------------------------------------------|

- 2016-present Board Member, American Delirium Society
- 2015 Member, National Institute of Aging/American Geriatric Society U-38 Conference: Sleep in older adults: Finding order in the disorder. Bethesda, MD, October 2014.
- 2014- present Member, Society of Critical Care Medicine ICU Liberation Research Group.
- 2014- present Chair, Society of Critical Care Medicine's International Pain, Agitation, Delirium, Early Mobilization and Sleep Clinical Practice Guidelines for Critically Ill Adults.
- 2014-2015 Member, Betsy Lehman Center/State of Massachusetts Patient Safety in Long Term Care Task Force
- 2014 Member, National Institute of Aging/American Geriatric Society U-38 Conference: Delirium in older adults: Finding order in the disorder. Bethesda, MD, February 2014.
- 2011 International Consensus Conference: Acute Care Sedation: Targeting Delirium Duration (being run by the Canada Critical Care Forum)
- 2011-13 Nominations Committee, Society of Critical Care Medicine, member
- 2008 Delirium chapter and treatment algorithm. VISICU Incorporated.  
Invited guest. Canadian Critical Care Trials Group Annual Meeting. Lake Louise, Alberta
- 2005-2013 American College of Critical Care Guidelines for the Recognition, Prevention and Treatment of Pain, Agitation and Delirium in Adult ICU Patients
- 2005-2006 Society of Critical Care Medicine Research Committee.
- 2005-2006 Society of Critical Care Medicine Critical Care Manpower Task Force.
- 2005-2008 American College of Critical Care Medicine Outcomes and Investigations Committee.
- 2005-2008 Society of Critical Care Medicine Pharmacy Fellowship Grant Review Committee
- 2004-2008 American College of Critical Care Medicine Nominations Committee.
- 2003 - 2004 Chair, Clinical Pharmacy and Pharmacology Section, Society of Critical Care Medicine.
- 2001 - 2002 American College of Critical Care Medicine Task Force on ICU Restraints.
- 2000 - 2003 Society of Critical Care Medicine Membership Committee.
- 1998 - 2004 Advisory Board, Clinical Pharmacy and Pharmacology Section, Society of Critical Care Medicine.
- 1998 - 2000 Society of Critical Care Medicine Presidential Task Force on Member Communication.
- 1997-1998 American College of Clinical Pharmacy Educational Services Committee.

### **Service to the Community/Public**

- 2005-Present Community Research Initiative of New England, board member
- 2003-2005 BAGLY, board member

### **TEACHING AND ADVISING**

#### **Northeastern University School of Pharmacy**

##### **Courses Currently Coordinated**

HLTH 1010 From the Community to the ICU: Approaches to Interdisciplinary Health in Aging Adults  
 PMD U585 Research Methods for Hospital Pharmacists in Health Systems PMD G452  
 Advanced Professional Practice Experience, Critical Care-Clinical PMD G452 Advanced  
 Professional Practice Experience, Critical Care-Research

##### **Graduate Students**

2016 – present Matthew Duprey, PharmD (Population Health PhD Program)

##### **Post-Doctoral Critical Care Pharmacy Fellows**

This program is in an intensive two year experience program consisting of hypothesis-driven clinical research and accompanying didactic training (80%), didactic and experiential teaching (15%) and clinical practice (5%).

2016-present Matthew Duprey, PharmD  
2013-2015 Abdullah Al-Hammad, PharmD  
2011-2013 Nada Alqadheeb, PharmD, FCCP  
2007-2009 Russel Roberts, Pharm.D.  
2005-2007 Jeffrey Fong, Pharm.D.  
1999-2001 Sal Kanji. PharmD

**Pharmacy Research Cooperatives**

Fall 2017 Jared Jacobsen  
Fall 2015 Silas Lin  
Spring 2014 Joshua Etheridge  
Spring 2012 Vishal Thaker Fall  
2011 Ryan Griffin Spring  
2011 Mark Albiaziti Fall  
2010 Aura Neidhardt Fall  
2007 Glen Balian



**Tufts Medical Center**

**Direction of Pharmacy Resident Research Projects**

- 2011-2012 Justin Fongemie, PharmD, "Agreement between different types of ICU clinicians and an electrophysiology cardiologist when initiating a new order for scheduled IV haloperidol in ICU patients with agitated delirium who have potential underlying risk factors for QTc prolongation and/or Torsades de Pointes."
- 2007-2008 Lekha Nair, Pharm.D. "Predictors of nurse-initiated down-titration or interruption of continuous sedation therapy in the intensive care unit"
- 2006-2007 Jason Lancaster, Pharm.D."Impact of a ventilator-associated pneumonia protocol on appropriateness of antibiotic therapy and clinical outcomes."
- 2005-2006 Karen Cecere, Pharm.D., "Characterizing compliance rate variability among three different severe sepsis bundles at an academic medical center."
- 2004-2005 Angie Bakshi, Pharm.D., "An *in vitro* comparison of the ability of different providers to prepare and administer proton pump inhibitor suspensions."
- 2003-2004 Roman Belenkiy, Pharm.D., "A national multidisciplinary survey of current practices, beliefs and attitudes towards sedation therapy in the critically ill."
- 2003-2004 Ada Lau, Pharm.D., "Propofol-associated hypertriglyceridemia and pancreatitis in the ICU: An incidence and risk factor analysis."

**Wayne State University School of Pharmacy**

**Post-Doctoral Pharmacy Fellows**

- 2000-2002 Sal Kanji, Pharm.D. Dr. Kanji currently works as a clinical scientist at the Faculty of Medicine, University of Ottawa.

**Detroit Medical Center**

**Pharmacy Residents**

- 1997-2002 Experiential Rotation in the Surgical ICU. Provided 22 practice and speciality residents over a five year period with 4 week experiential rotations in the Surgical ICU.
- 2002-2003 Directed the research project of Cindy Nguyen, Pharm.D., "A national survey of acid suppression prescribing practices after acute upper gastrointestinal hemorrhage."
- 2001-2002 Directed the research project of Christine Ahrens, Pharm.D., "The effect of a hypocaloric parenteral nutrition regimen on the incidence of hyperglycemia and insulin requirements in surgical patients."
- 2001-2002 Directed the research project of Maria Seta, Pharm.D., "A retrospective analysis of the effects of fenoldopam versus nitroprusside on blood pressure, renal function, toxicity, and hospital costs in patients admitted with hypertensive emergencies."
- 2000-2001 Directed the research project of George Delgado, Pharm.D., "Characteristics of prophylactic antibiotic strategies after penetrating abdominal trauma at a level 1 urban trauma center: A comparison with the EAST guidelines."
- 1999-2000 Directed the research project of Allycia Marie, Pharm.D., "Expected cost savings not realized with the addition of oral levofloxacin to the formulary at a tertiary, level 1 trauma center."